



Protecting Chicago: Phase IV Re-Opening Metrics Update

April 15th, 2021

(Data current through 4/14/2021)

Chicago COVID-19 Community Metrics, Phase IV, current status

	Risk level as of 4/14/2021	Very high risk	High risk	Moderate risk	Lower risk	Controlled transmission
COVID cases diagnosed per day <small>Chicago residents 7-day rolling daily average</small>	HIGH 733	800+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	400 - 799 -or- 5+ consecutive days more than 10% higher than daily average one week prior	200 - 399 -and- decreasing or stable compared to daily average one week prior	20 - 199 -and- decreasing or stable compared to daily average one week prior	<20
COVID test positivity <small>Chicago residents 7-day rolling daily average</small>	HIGH 5.8%*	10%+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	6.6 - 9.9% -or- *5+ consecutive days more than 10% higher than daily average one week prior	5.0 - 6.5% -and- decreasing or stable compared to daily average one week prior	2 - 4.9% -and- decreasing or stable compared to daily average one week prior	<2%
Emergency dept visits for COVID-like illness <small>Chicago hospitals 7-day rolling daily average</small>	VERY HIGH 139	90+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	80-89 -or- 5+ consecutive days more than 10% higher than daily average one week prior	60 - 79 -and- decreasing or stable compared to daily average one week prior	20 - 59 -and- decreasing or stable compared to daily average one week prior	<20
ICU beds occupied by COVID patients <small>Chicago hospitals 7-day rolling daily average</small>	MODERATE 118	400+ -or- <20% overall ICU bed availability	300 - 399 -or- <22% overall ICU bed availability	100 - 299	20 - 99	<20

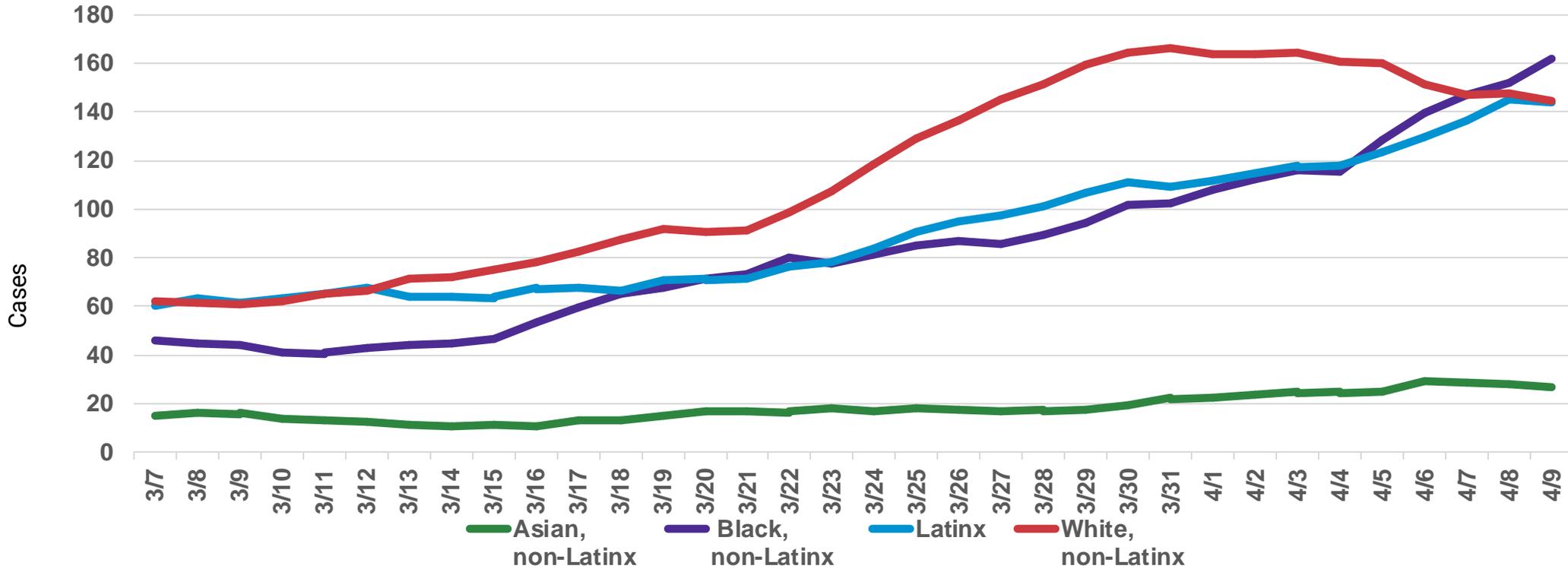


Cases, Hospital Admissions, and Deaths by Race/Ethnicity and Cases by Age

Incident cases increasing for Latinx and Black, non-Latinx. White, non-Latinx are decreasing.



COVID-19 Cases, on Specimen Date, by Race/Ethnicity, rolling 7-day average

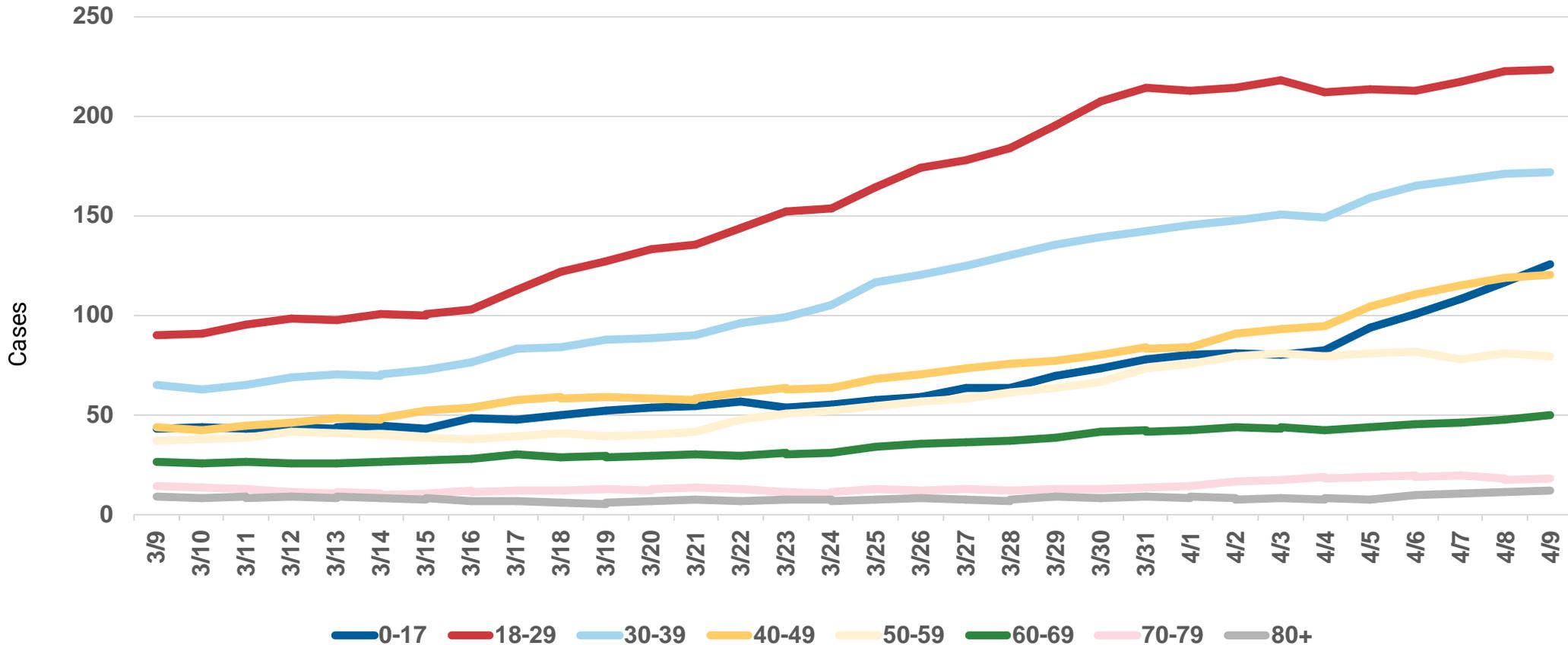


Daily COVID-19 cases with known specimen report date and race/ethnicity information. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

Incident cases are highest and flat for 18-29 year olds. All age groups <70y have been increasing. 0-17y the fastest.



COVID-19 Cases, on Specimen Date, by Age Group, rolling 7-day average



Daily COVID-19 cases with known specimen report date and race/ethnicity information. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

Weekly changes in COVID-19 cases by race/ethnicity and age group for week ending April 10th (comparisons to week ending April 3rd)



Age Group (years)	Latinx	% of Age grp	Change from last week	Black, NL	% of Age grp	Change from last week	White, NL	% of Age grp	Change from last week	Asian, NL	% of Age grp	Change from last week	Total (percent)	Change from last week
0-17	240	36%	+109	206	31%	+89	128	19%	+38	26	4%	+8	848 (17%)	+307
18-44	619	28%	+112	654	29%	+236	714	32%	-169	114	5%	-7	2,866 (57%)	+246
45-64	226	26%	+39	305	35%	+49	224	26%	+4	47	5%	+12	1,071 (21%)	+167
65+	48	21%	+15	102	44%	+8	51	22%	-20	14	6%	+6	268 (5%)	+17
Total	1,133	28%	+275	1,267	32%	+382	1,117	28%	-147	201	5%	+19	5,053	+737

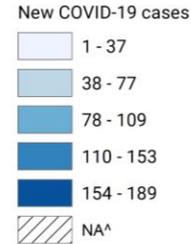
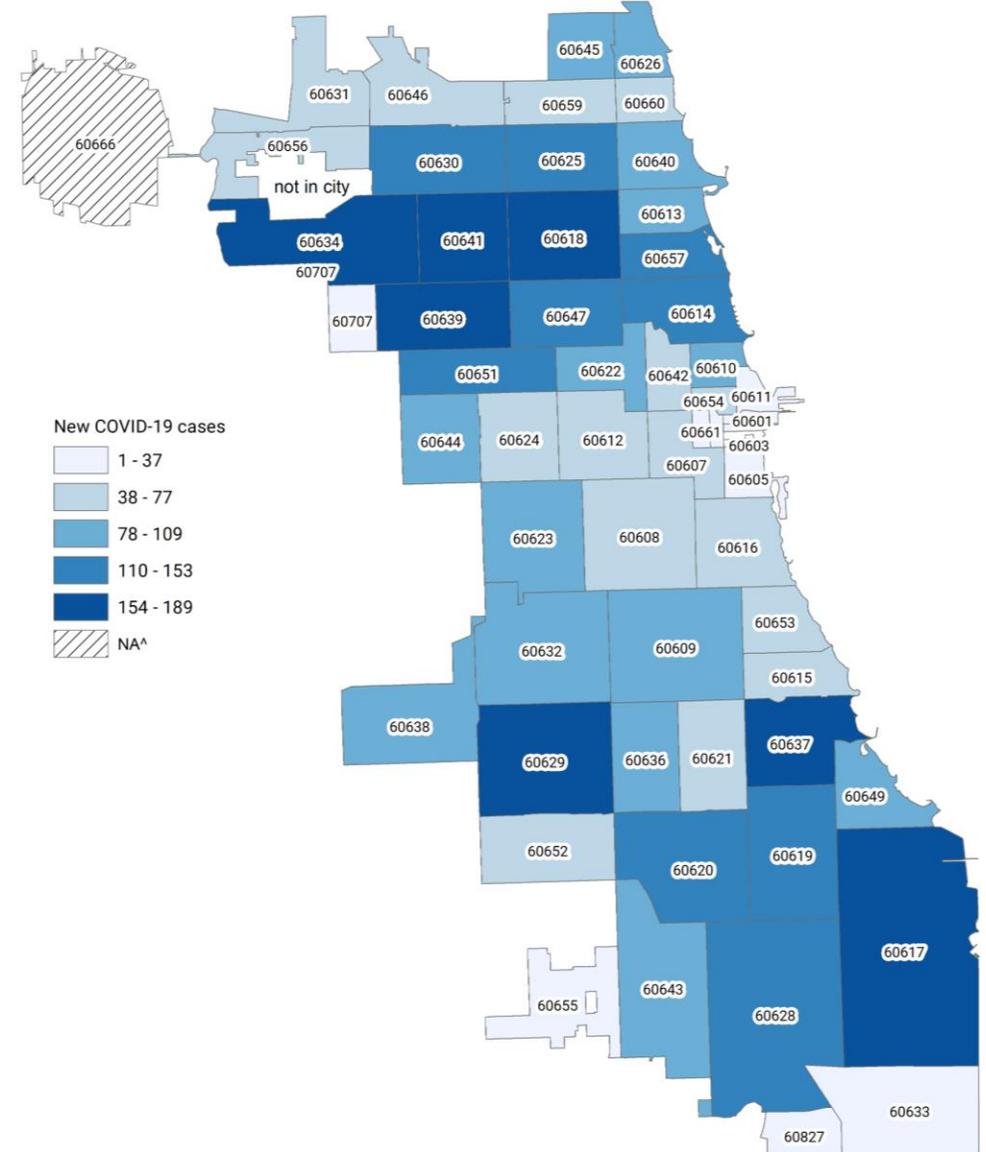
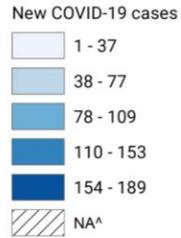
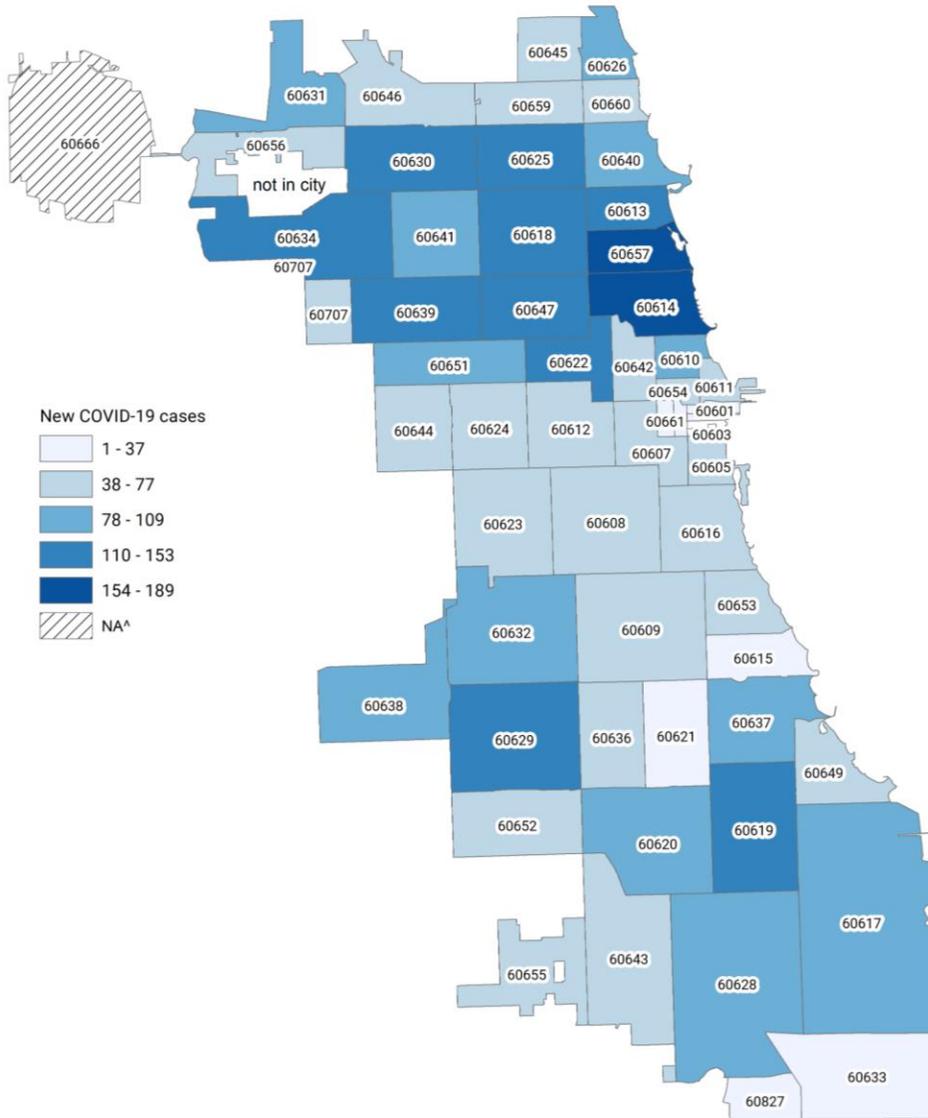
Percentages are computed using confirmed COVID-19 cases with known race/ethnicity.

Data pulled Wednesday 4/14/21

Changes in weekly case counts by zip code

Week ending 4/3/21 (n=4,316)

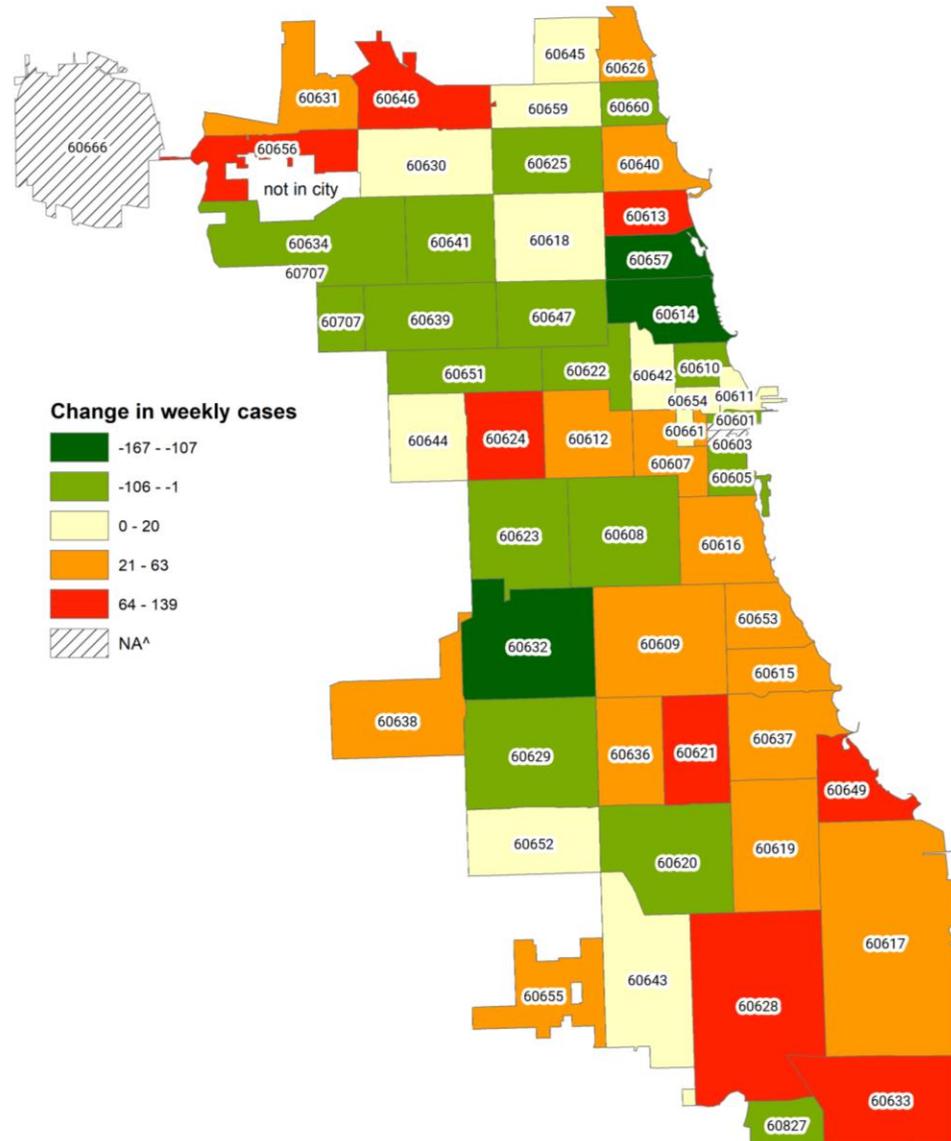
Week ending 4/10/21 (n=5,053)



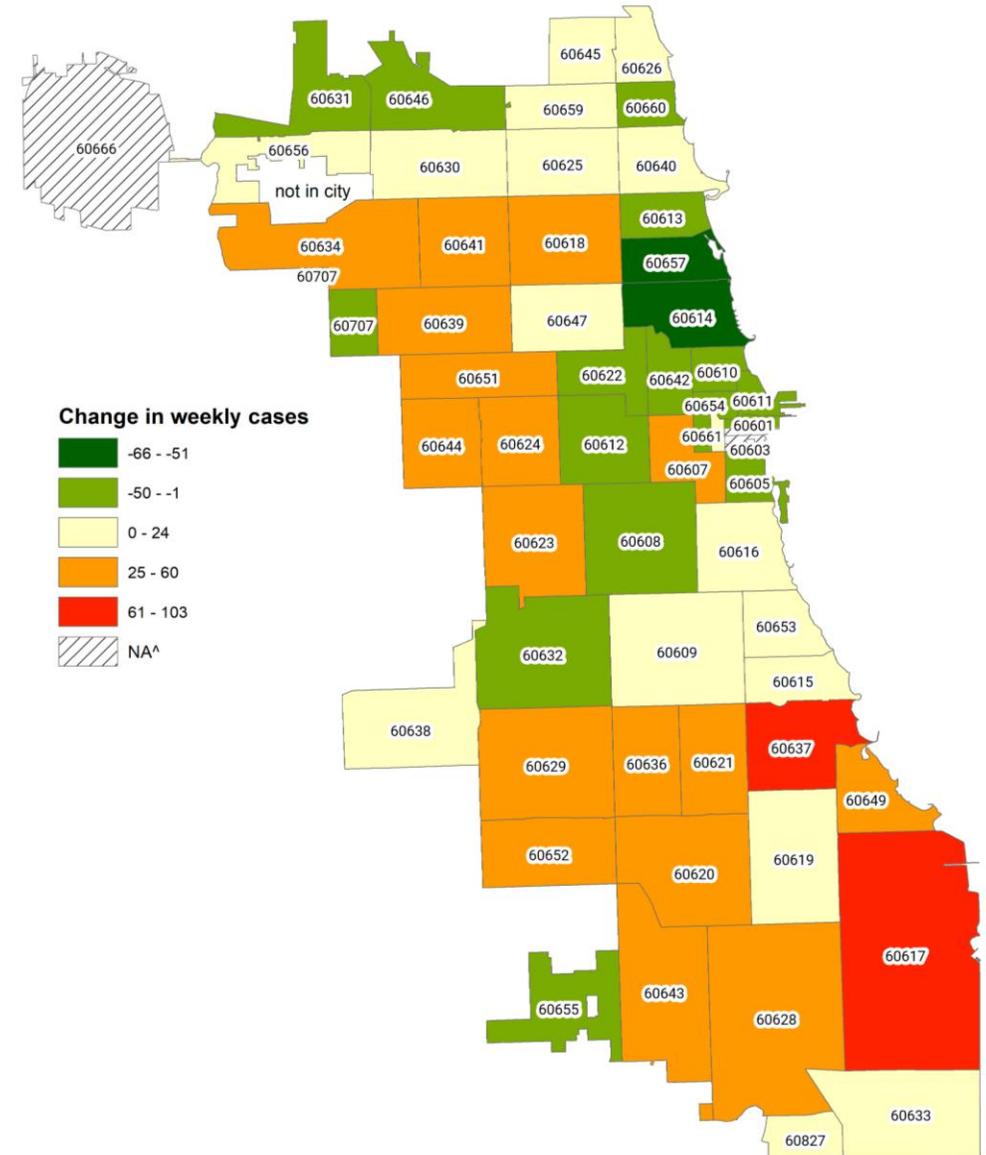
Note: Week is data through the Wednesday after the end date for the week. Week 14 ending April 10th and week 14 ending April 3rd

Changes in weekly case counts by zip code

Week 13 compared to Week 12

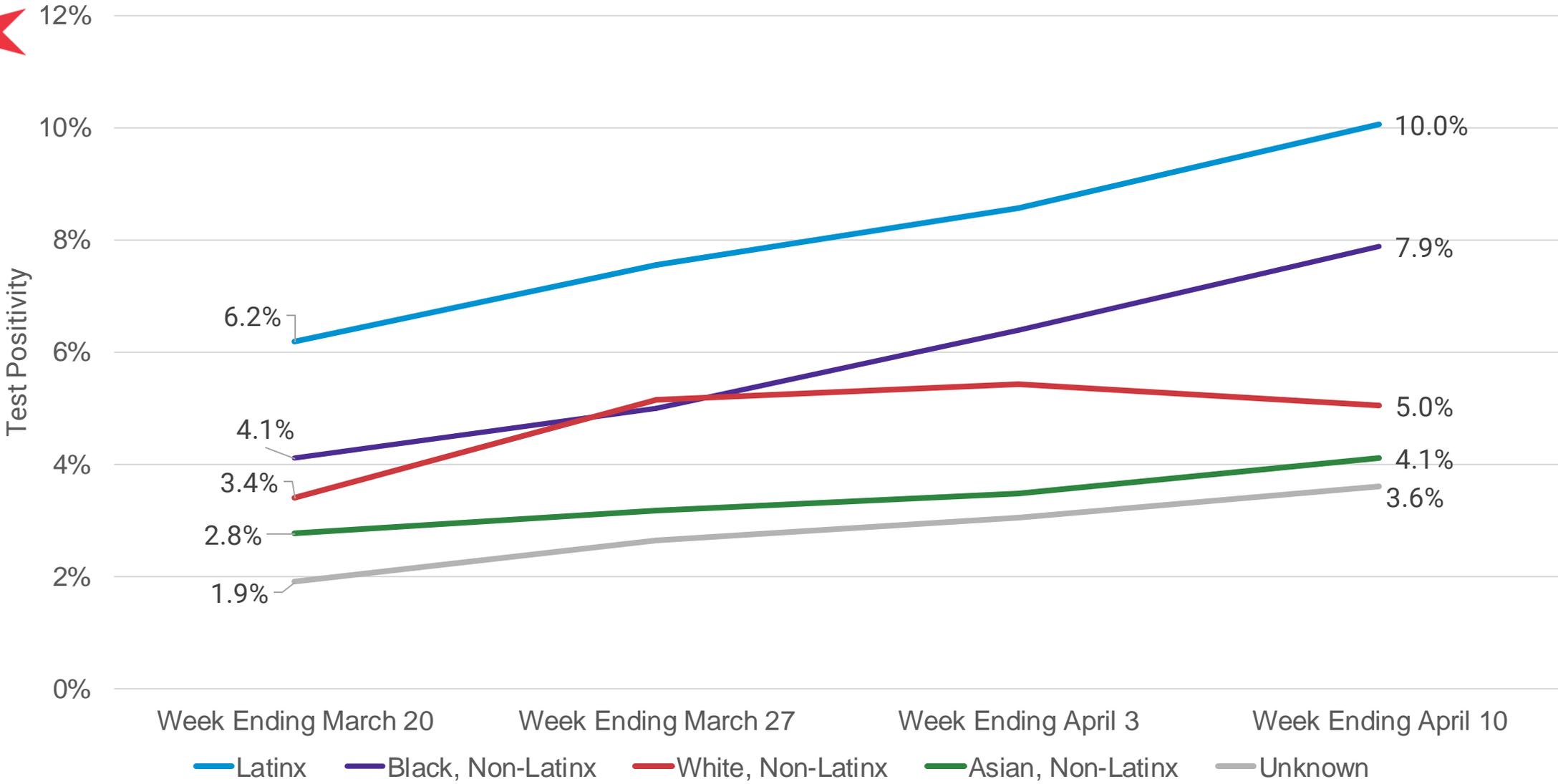


Week 14 compared to Week 13

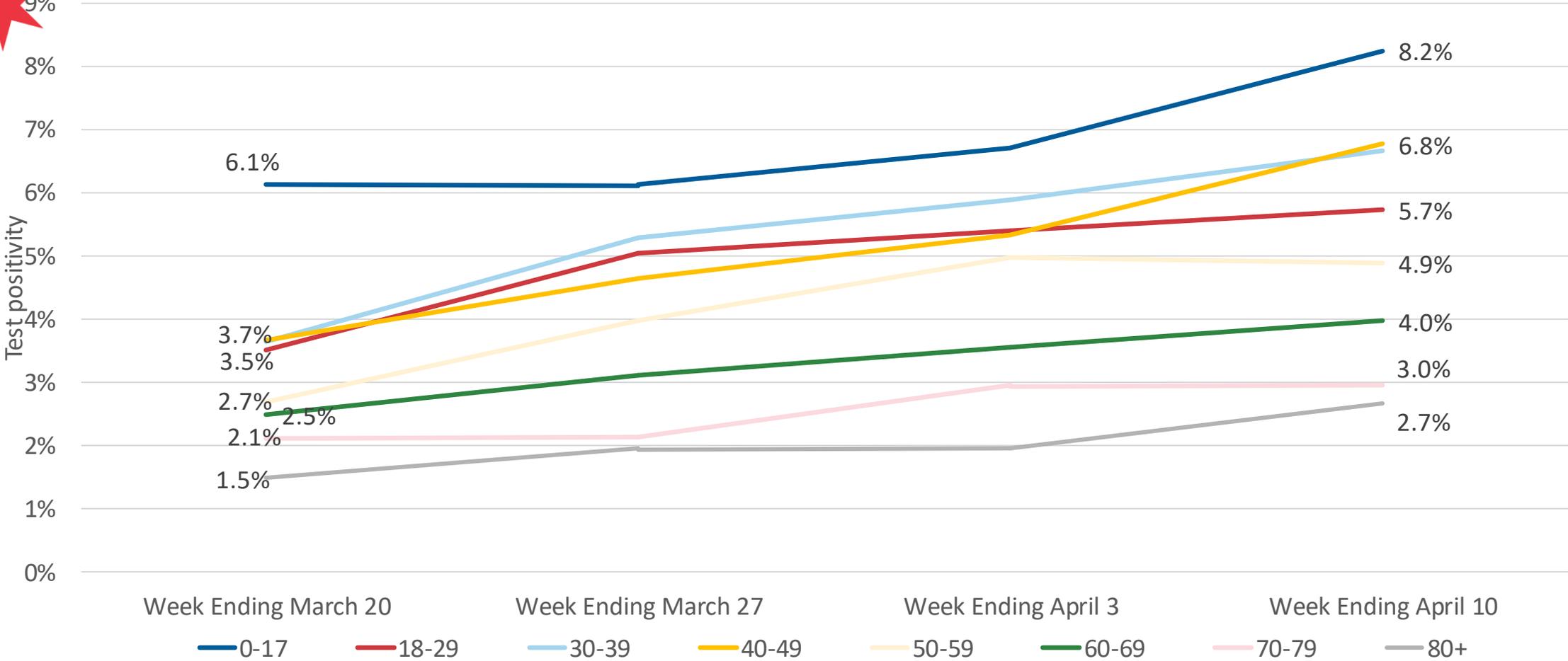


Note: Week is data through the Wednesday after the end date for the week. Week 14 ending April 10th and week 13 ending April 3rd

Test positivity by Race-Ethnicity (March 15 – April 10, 2021)



Test positivity by Age through (March 15 – April 10, 2021)





Hospital admissions

Cumulative epidemic hospitalization with table



COVID-19 Hospital admissions, by Race/Ethnicity, rolling 7-day average



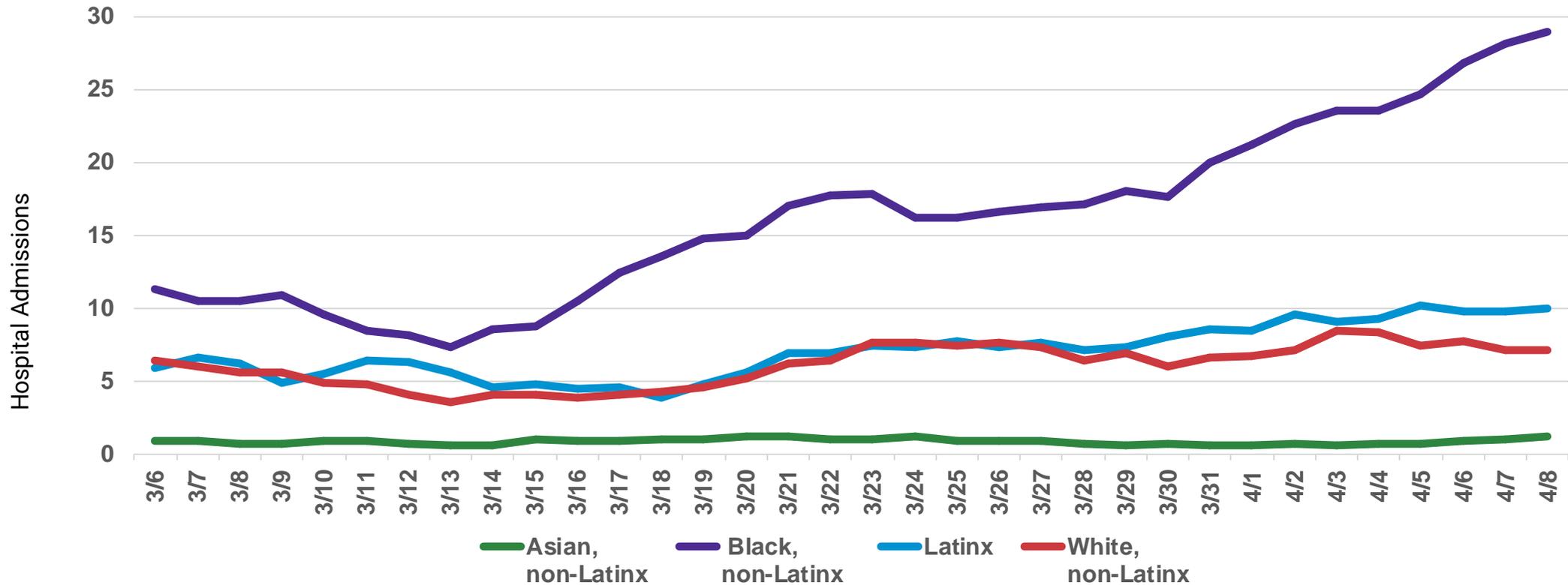
Month	Year	Hospital Admits frequency	Cumulative frequency
March	2020	1,655	1,655
April	2020	4,856	6,511
May	2020	3,252	9,763
June	2020	964	10,727
July	2020	763	11,490
August	2020	781	12,271
September	2020	752	13,023
October	2020	1,745	14,768
November	2020	3,730	18,498
December	2020	3,001	21,499
January	2021	2,065	23,564
February	2021	972	24,536
March	2021	936	25,472
April	2021	566	26,038

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart. Peak daily admissions based on rolling 7-day average.

Daily COVID-19 hospital admissions are highest and rose fastest in Black, non-Latinx. Now 3X greater than mid-March.



COVID-19 Hospital Admissions, by Race/Ethnicity, rolling 7-day average, first known hospital admit date



Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart. Peak daily admissions based on rolling 7-day average.

Recent COVID-19 hospitalizations by race/ethnicity and age group (Mar 14– Apr 10, 2021)



Age Group (years)	Latinx	% of Age grp	Black, NL	% of Age grp	White, NL	% of Age grp	Asian, NL	% of Age grp	Total	Percent
0-17	10	40%	9	36%	3	12%	2	8%	25	3%
18-44	72	30%	122	51%	30	12%	4	2%	241	28%
45-64	56	18%	187	59%	56	18%	5	1%	318	38%
65+	41	16%	137	53%	62	24%	8	3%	258	31%
Total	179	21%	455	54%	151	18%	19	2%	842	100%

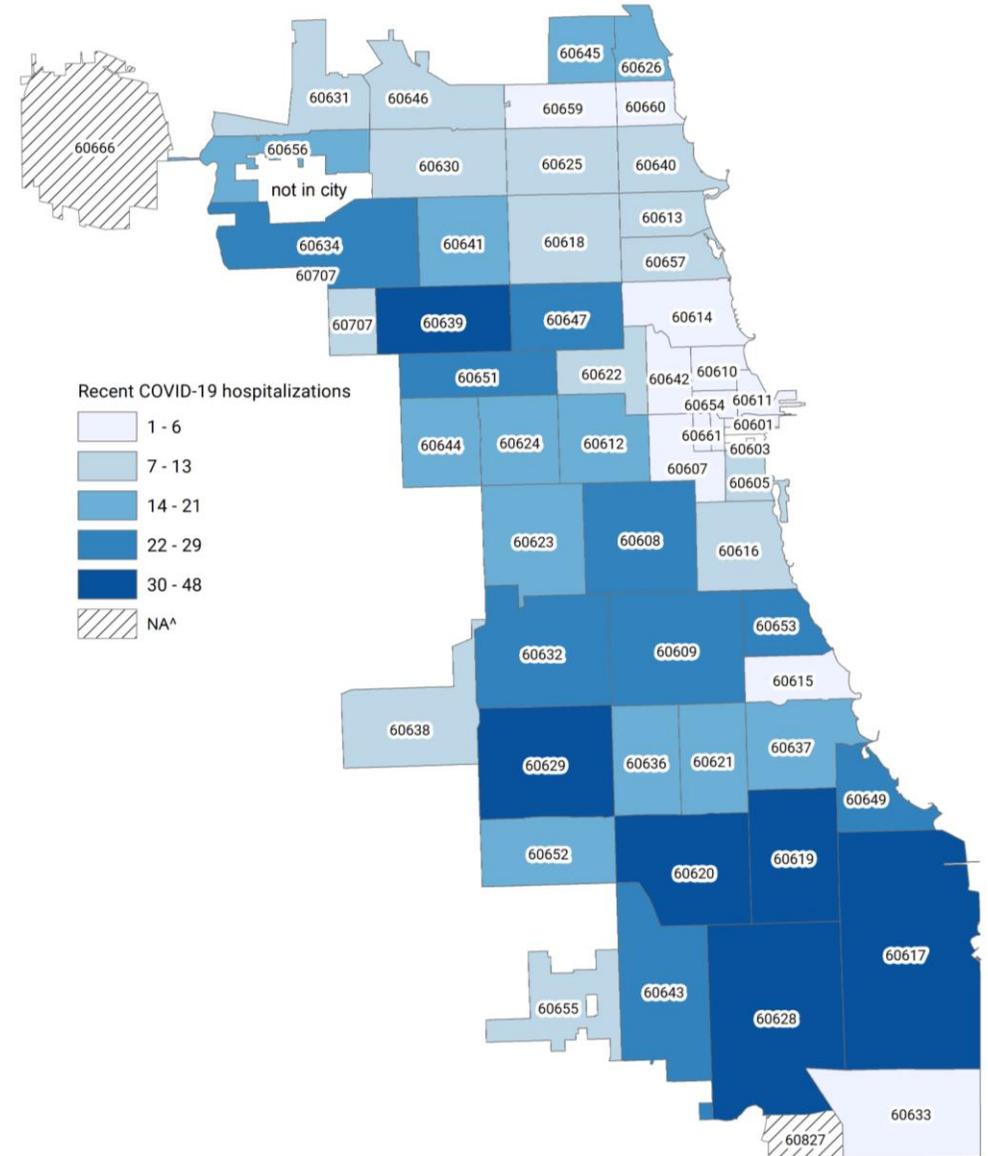
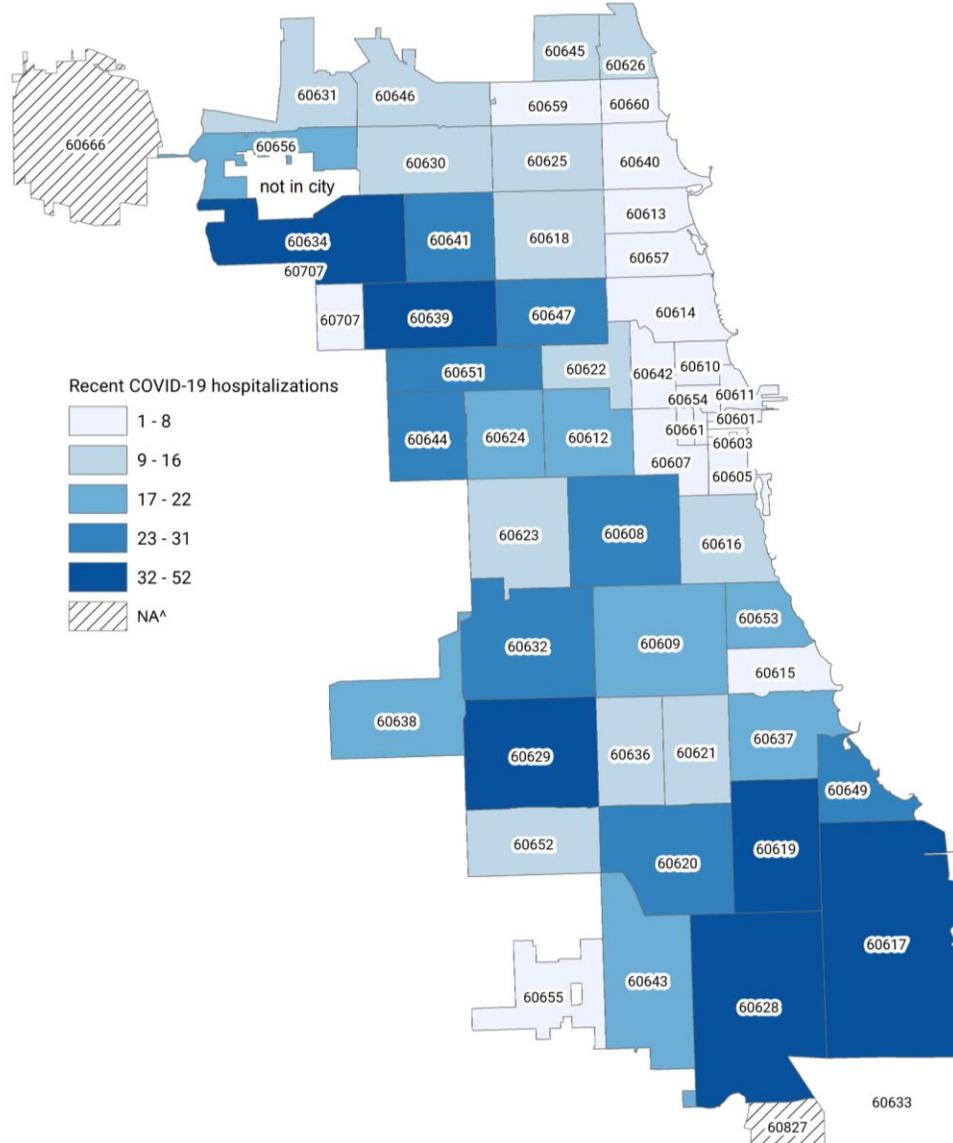
Percentages are computed using COVID-19 hospitalizations with known race/ethnicity.

Data pulled Wednesday 4/14/21

Recent COVID-19 hospitalizations by Chicago zip code

Mar 7– Apr 7, 2021 n=882

Mar 14– Apr 10, 2021 n=842

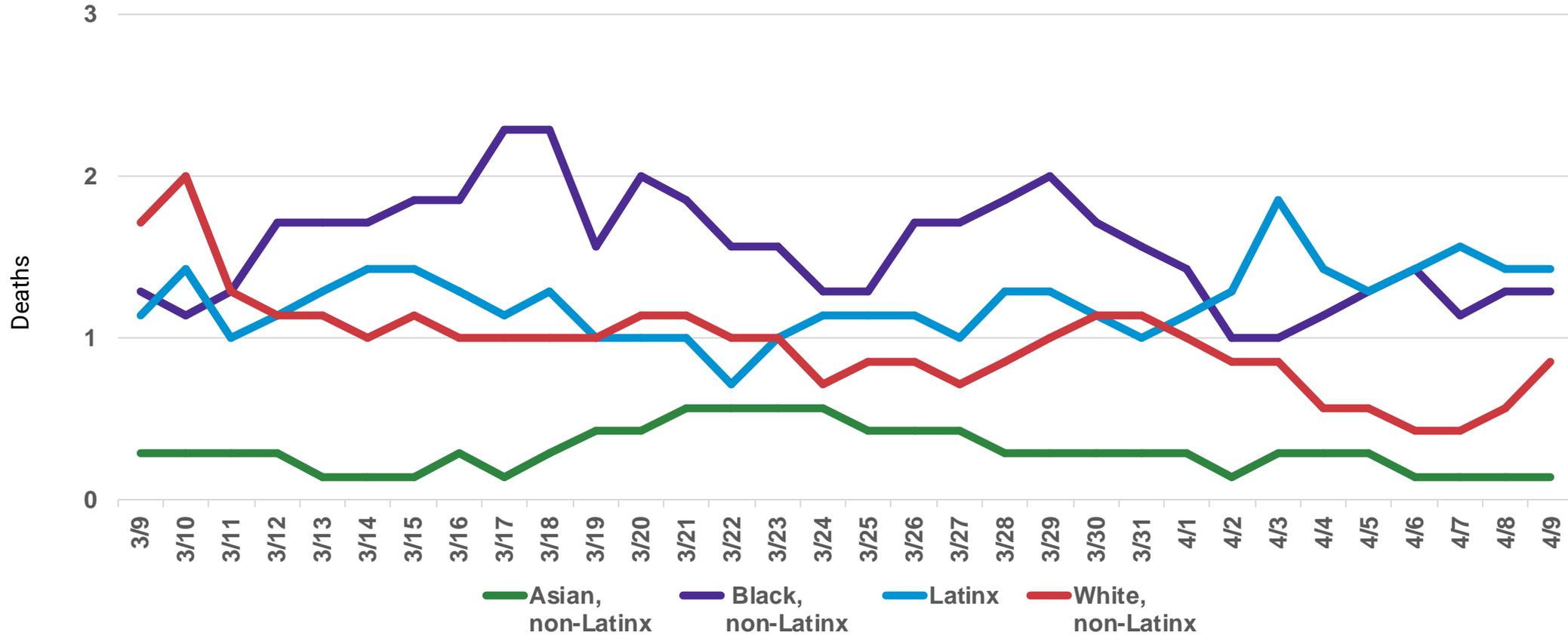


Please note that COVID-19 hospitalizations have significant reporting delays

Daily COVID-19 deaths are currently similar for most race/ethnicities.



COVID-19 Deaths, by Race/Ethnicity, rolling 7-day average



Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. A five day lag is imposed to reduce inaccuracy created by reporting delays.

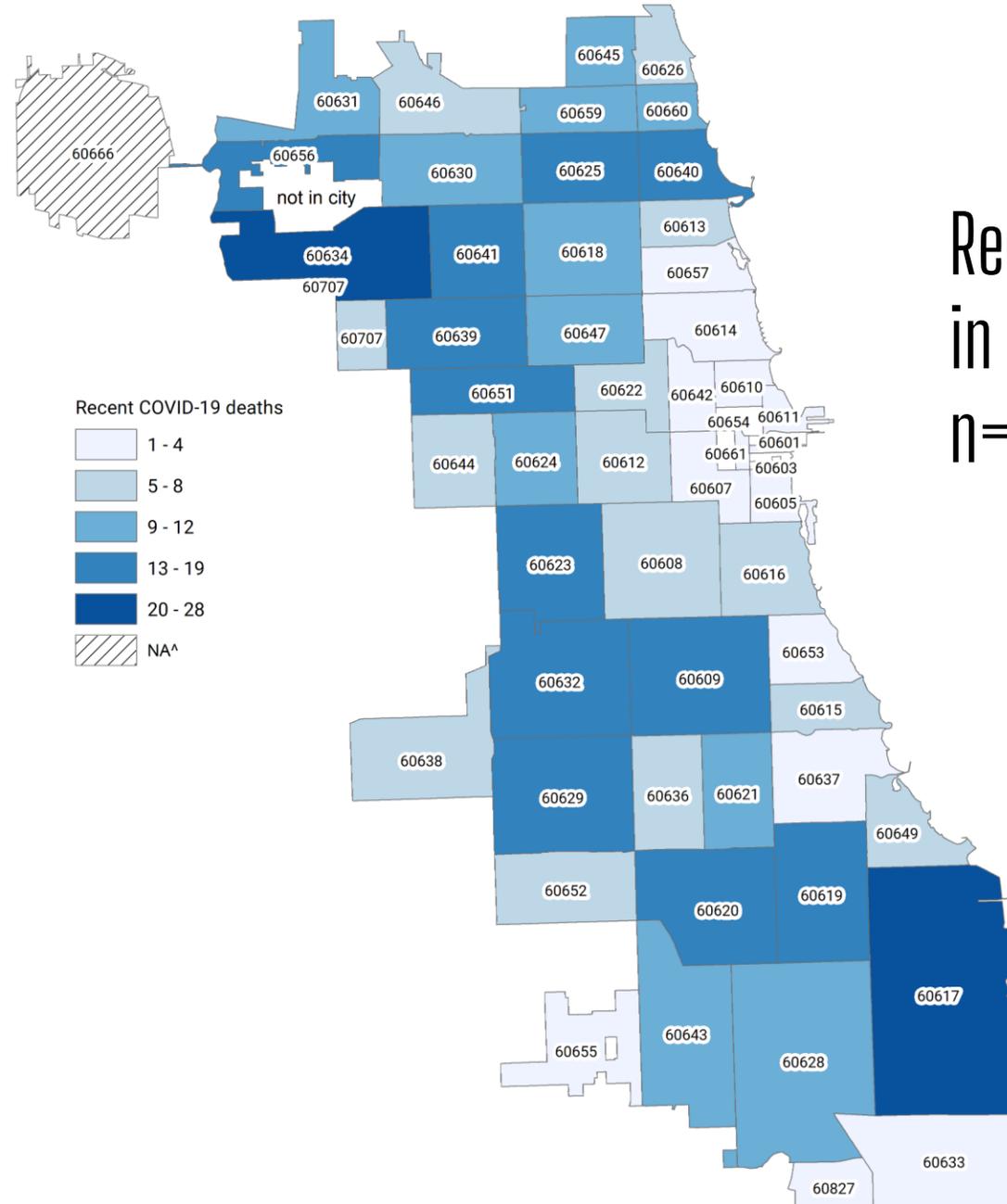
Recent **COVID-19 deaths** by race/ethnicity and age group in 2021 through April 13th



Age Group (years)	Latinx	% of Age grp	Black, NL	% of Age grp	White, NL	% of Age grp	Asian, NL	% of Age grp	Total	Percent
0-17	0	0%	0	0%	0	0%	0	0%	0	0%
18-44	5	22%	14	61%	2	9%	1	4%	23	5%
45-64	48	43%	44	39%	16	14%	3	3%	112	23%
65+	94	26%	118	33%	115	32%	26	7%	358	73%
Total	147	30%	176	36%	133	27%	30	6%	493	100%

Percentages are computed using COVID-19 hospitalizations with known race/ethnicity.

Data pulled Wednesday 4/14/21



Recent **COVID-19** deaths
in **2021** by Chicago zip code
n=493

Please note that COVID-19 hospitalizations have significant reporting delays



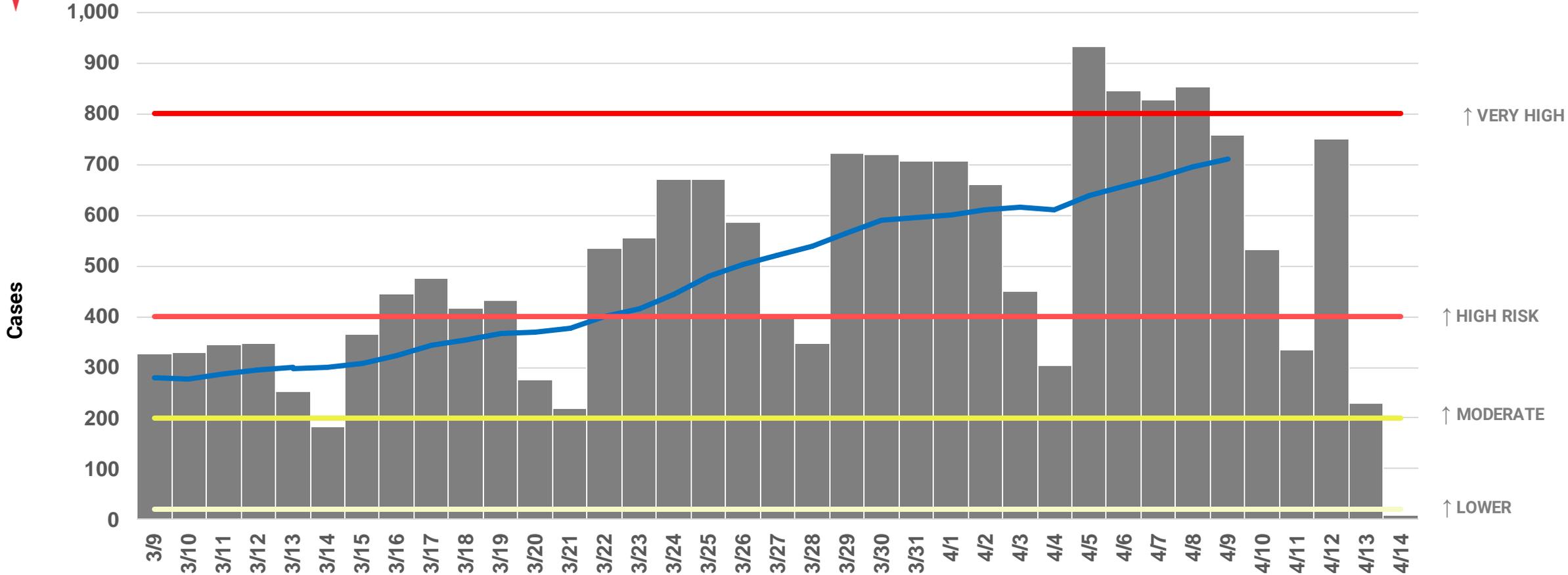
COVID-19 Cases

COVID-19 case incidence risk level is very high.

Date	Incident case count, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
4/15/2021	733	30	0	HIGH	7



COVID-19 cases, daily counts and rolling 7-day average, specimen date

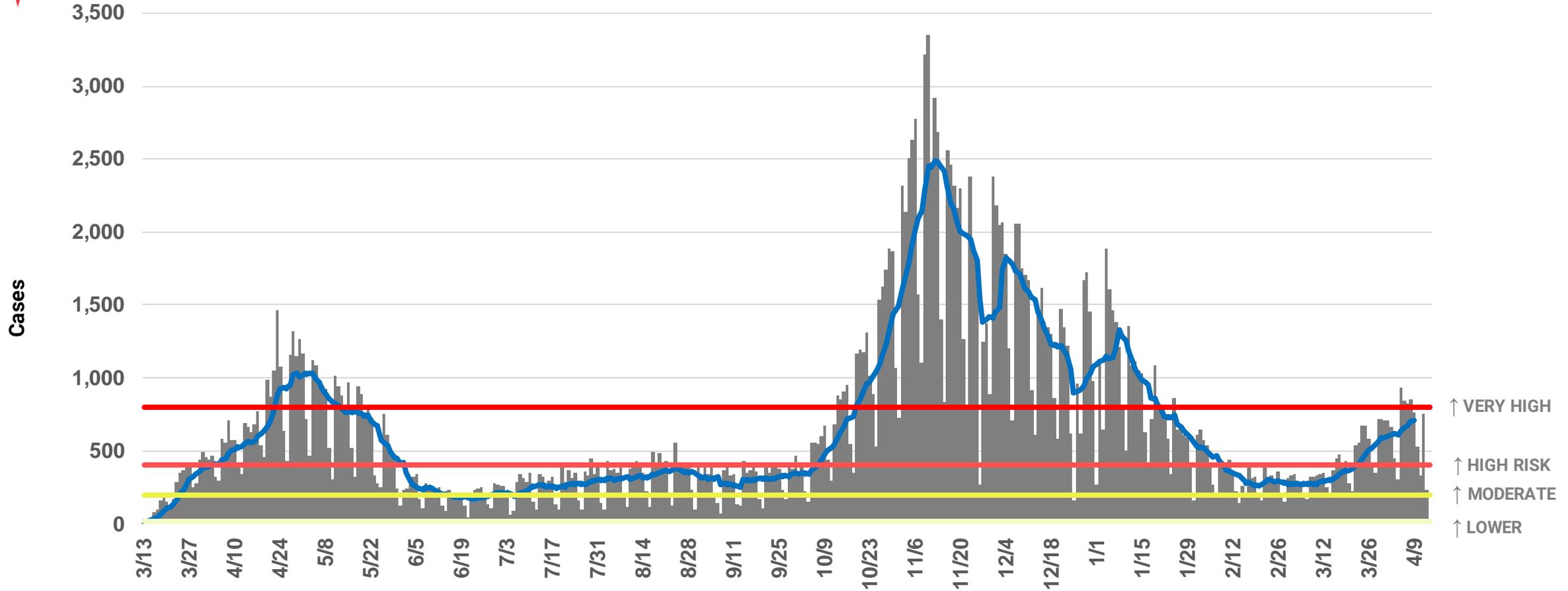


Daily COVID-19 cases with known specimen report date. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

COVID-19 case incidence risk level varies over time.



COVID-19 cases, daily counts and rolling 7-day average, specimen date



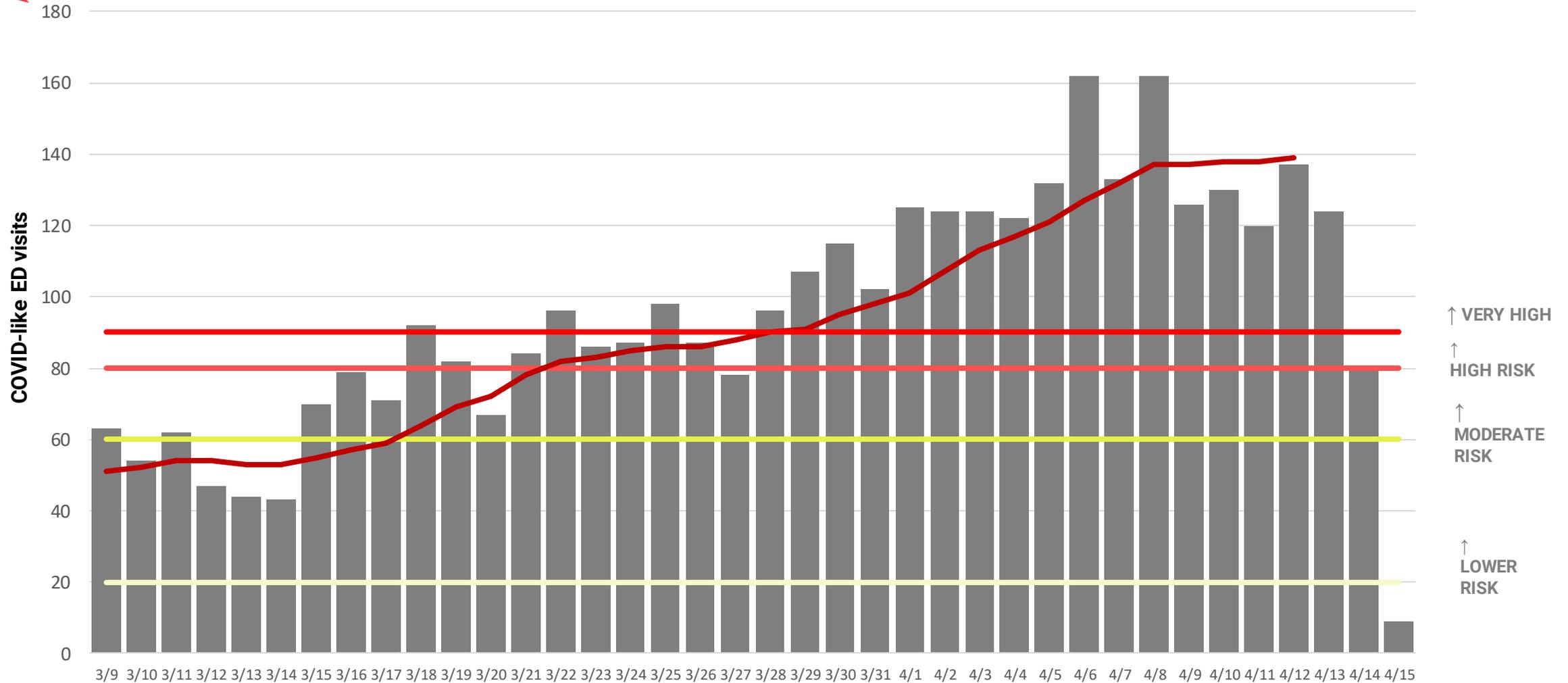
Daily COVID-19 cases with known specimen report date. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.



Emergency Department Visits

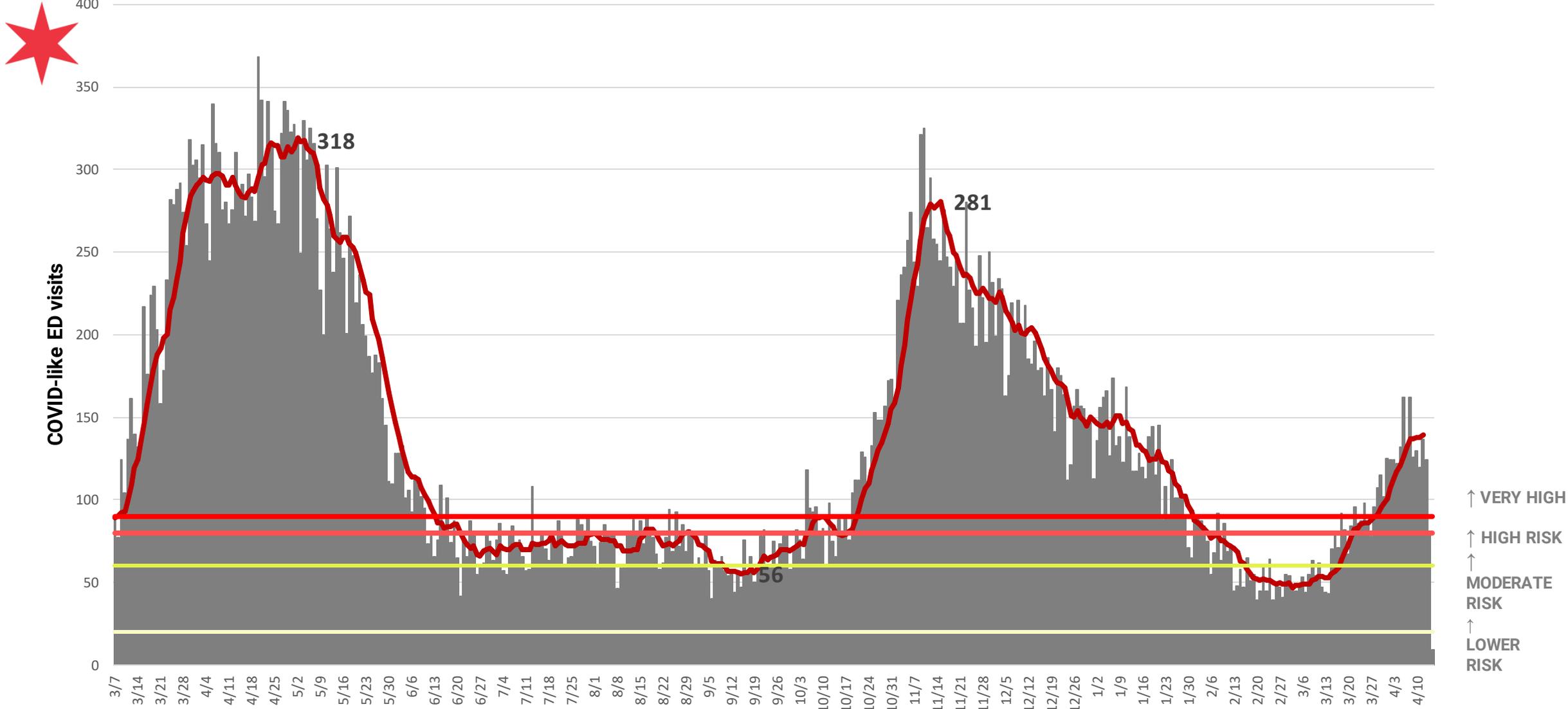
ED visits for COVID-like illness risk level is very high.

Date	CLI ED visit count, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
4/15/2021	139	30	0	VERY HIGH	7



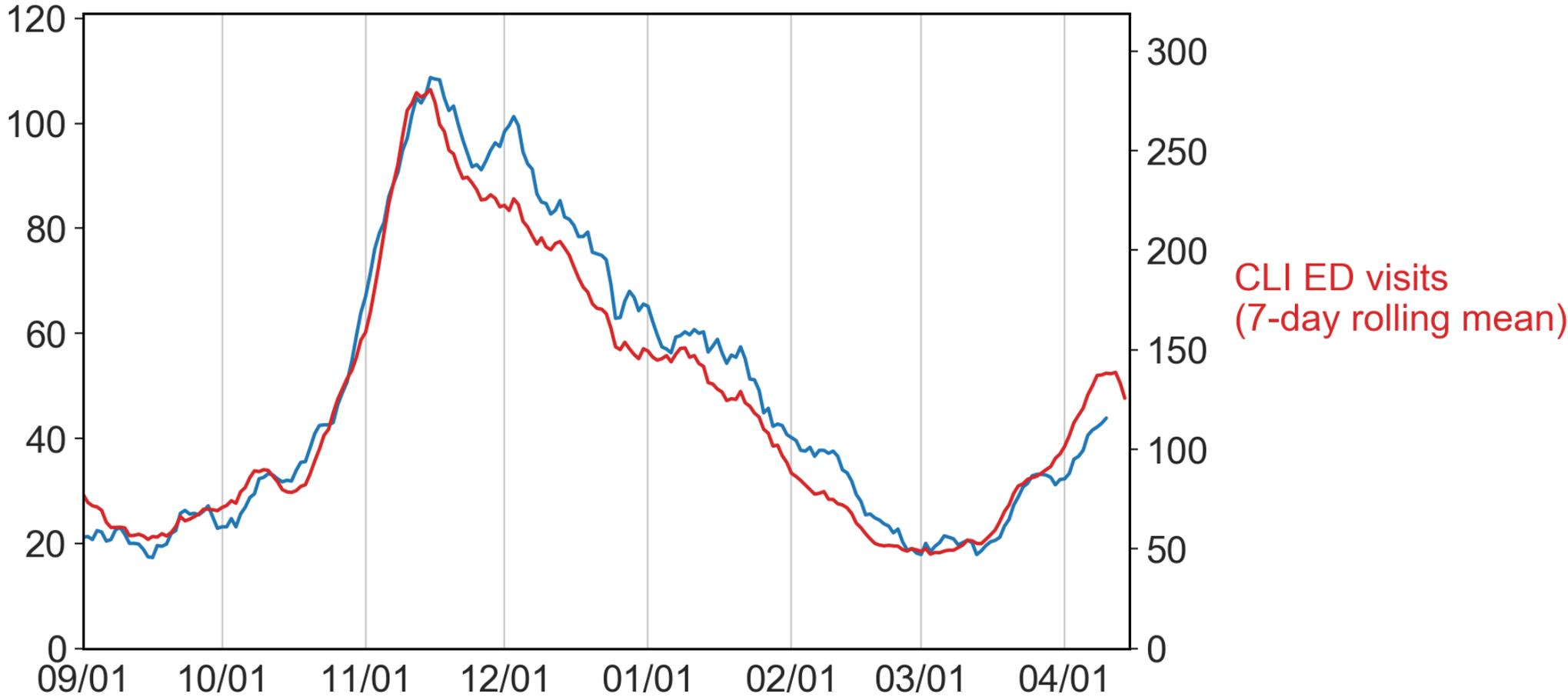
Count of all emergency department visits reported with COVID-like symptoms among Chicago residents.
 Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.

ED visits for COVID-like illness reached the highest peak in early May and is currently increasing.



Count of all emergency department visits reported with COVID-like symptoms among Chicago residents.
Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.

CLI ED visits and hospital admissions are nearing 50% of surge 2 peak.



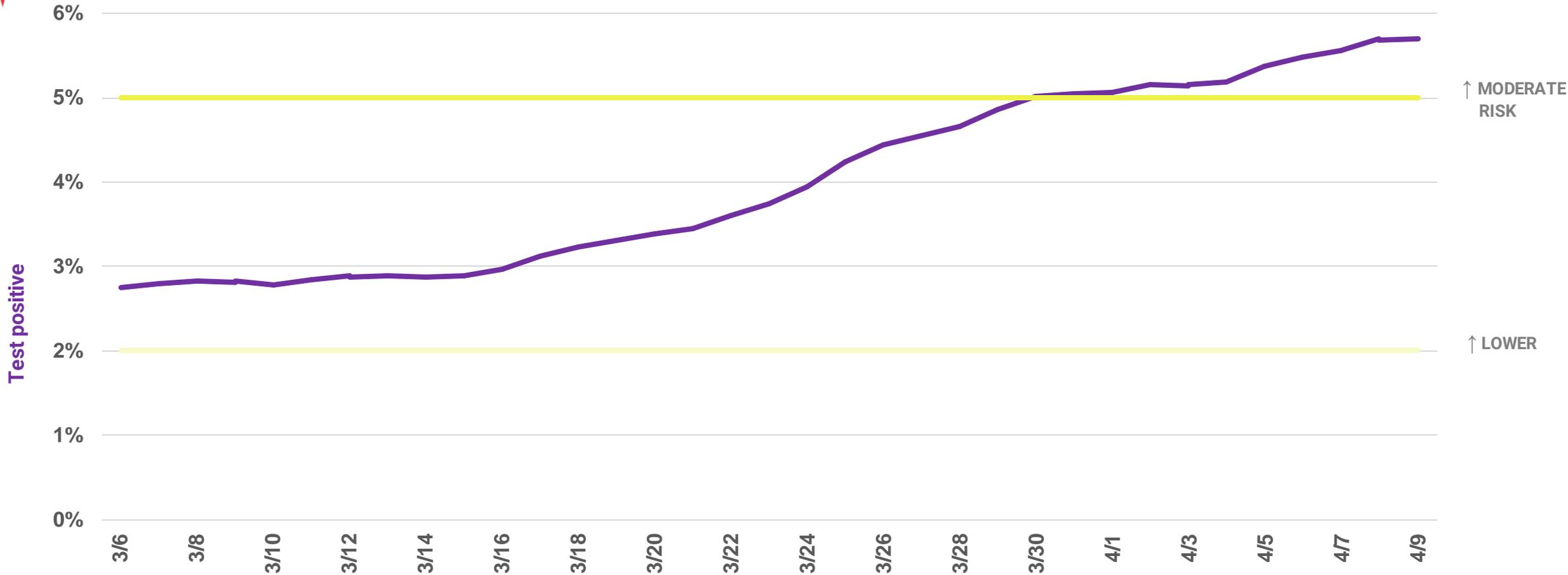


Test Positivity

Test positivity risk level is very high.



COVID-19 tests, 7-day rolling average for test positive (%)



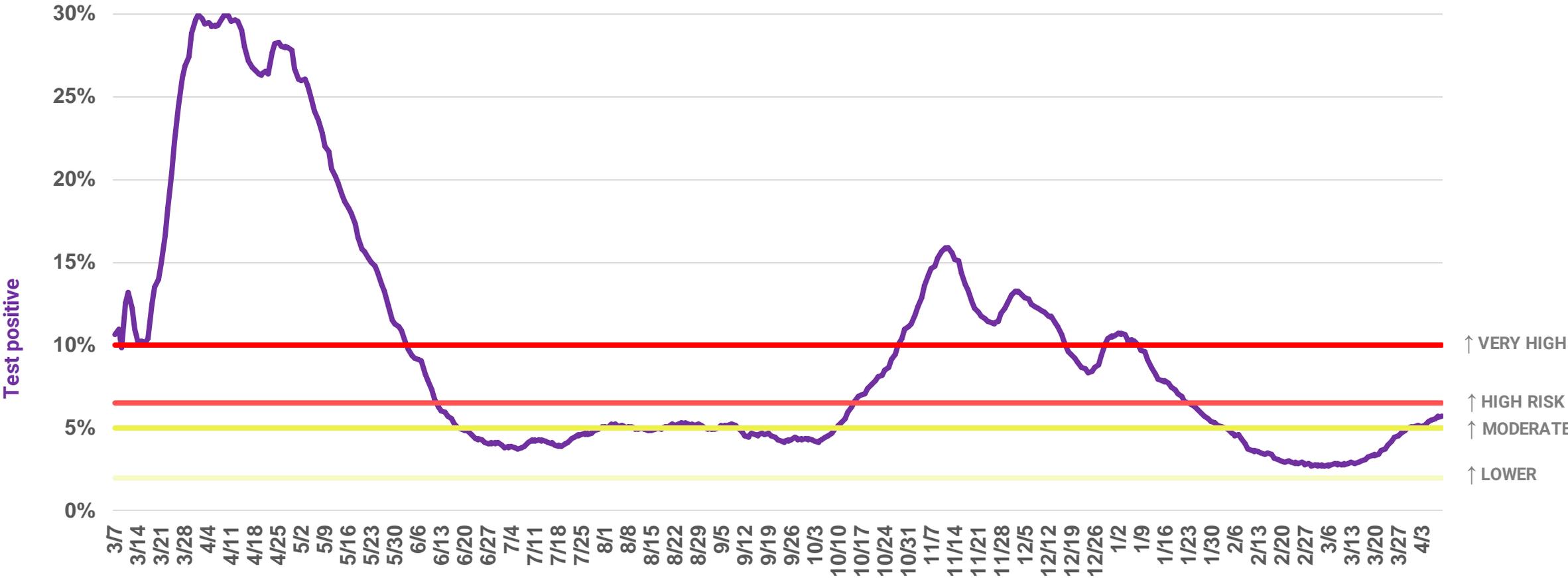
Date	Test Positivity, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
4/15/2021	5.8%	8	0	HIGH	7

Test positivity is the number of positive tests divided by all tests performed. For the purposes of public reporting, the definition of 'tests' was expanded on 2/8/2021 to include antigen tests in addition to PCR tests. (Previous reports only described PCR tests). The new definition is applied to testing performed at any point during the epidemic. Source: INEDSS.

Test positivity varies over time.



COVID-19 tests, 7-day rolling average for test positive (%)

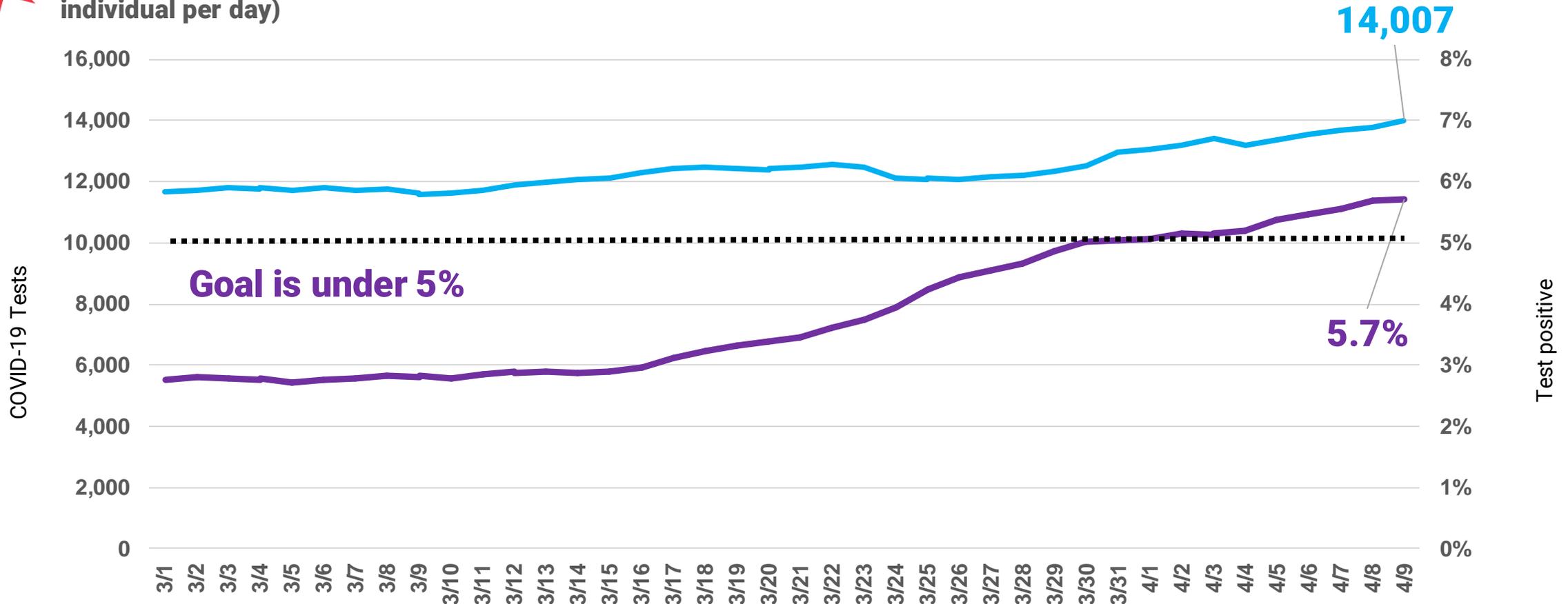


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Since 3/15/21, test positivity is increasing quicker than testing.



COVID-19 tests, 7-day rolling average for test positive (%) and for counts (one test per individual per day)

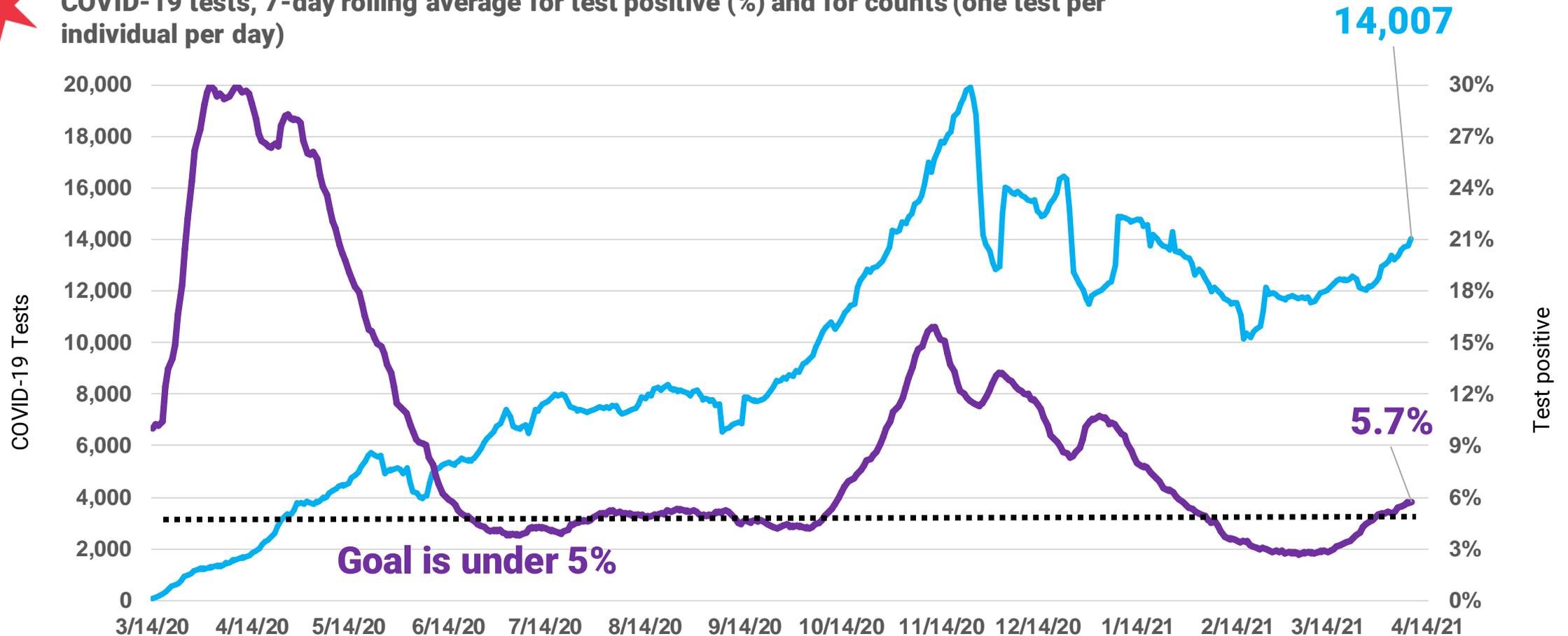


Test positivity is the number of positive tests divided by all tests performed (Source: INEDSS).

Test positivity and testing count have varied greatly over the entire duration of the epidemic.



COVID-19 tests, 7-day rolling average for test positive (%) and for counts (one test per individual per day)



Test positivity is the number of positive tests divided by all tests performed (Source: INEDSS).



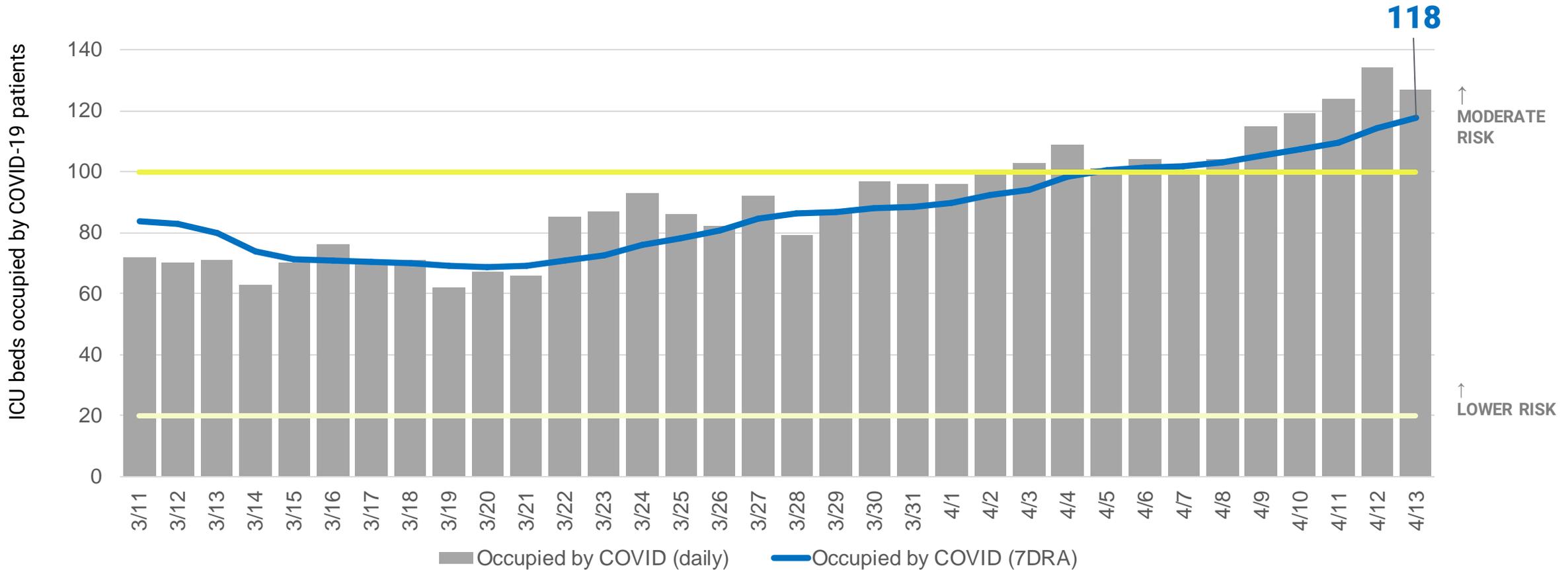
Hospital System Capacity

COVID-19 occupied ICU beds risk level is moderate.



ICU beds occupied by COVID-19 patients, daily counts and 7 day average, daily occupancy census

Date	ICU Beds Occupied by COVID-19, 7DRA	ICU Bed Availability, 7DRA	Risk level
4/15/2021	118	22%	MODERATE



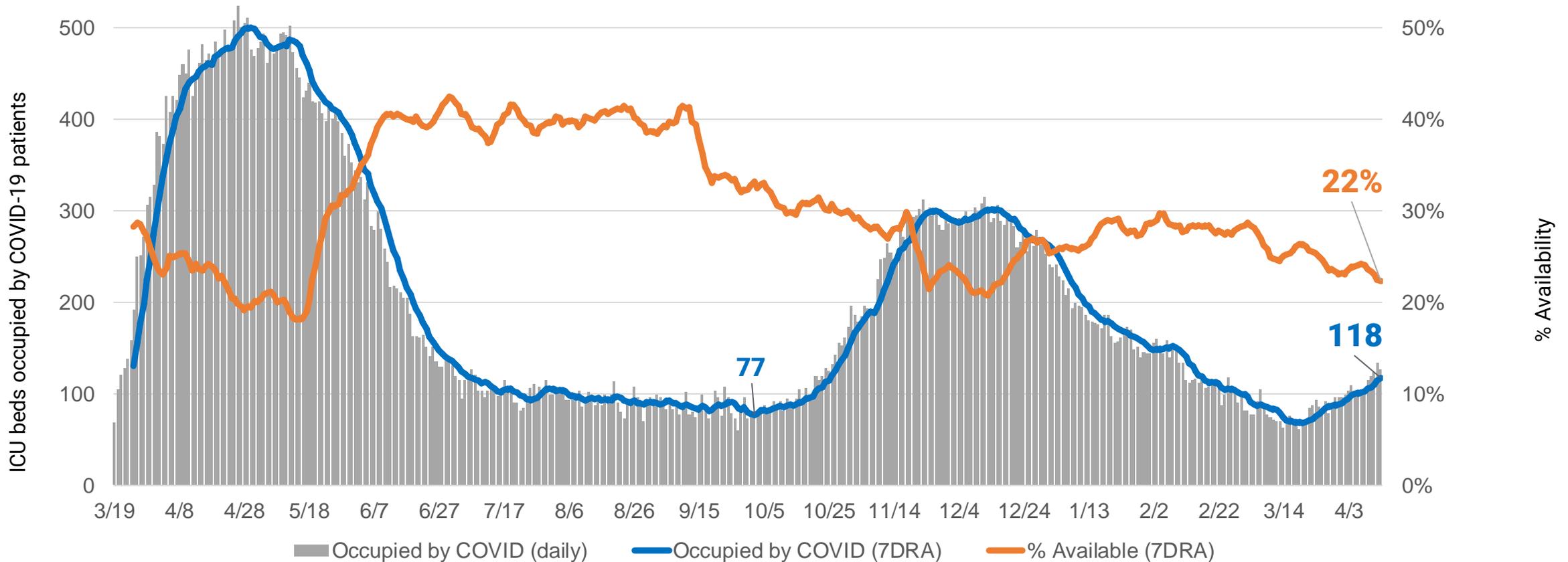
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

ICU availability and occupancy from COVID-19 varies.

Date	ICU Beds Occupied by COVID-19, 7DRA	ICU Bed Availability, 7DRA	Risk level
4/13/2021	118	22%	MODERATE



ICU beds available and occupied by COVID-19 patients, daily counts and 7 day average, daily occupancy census

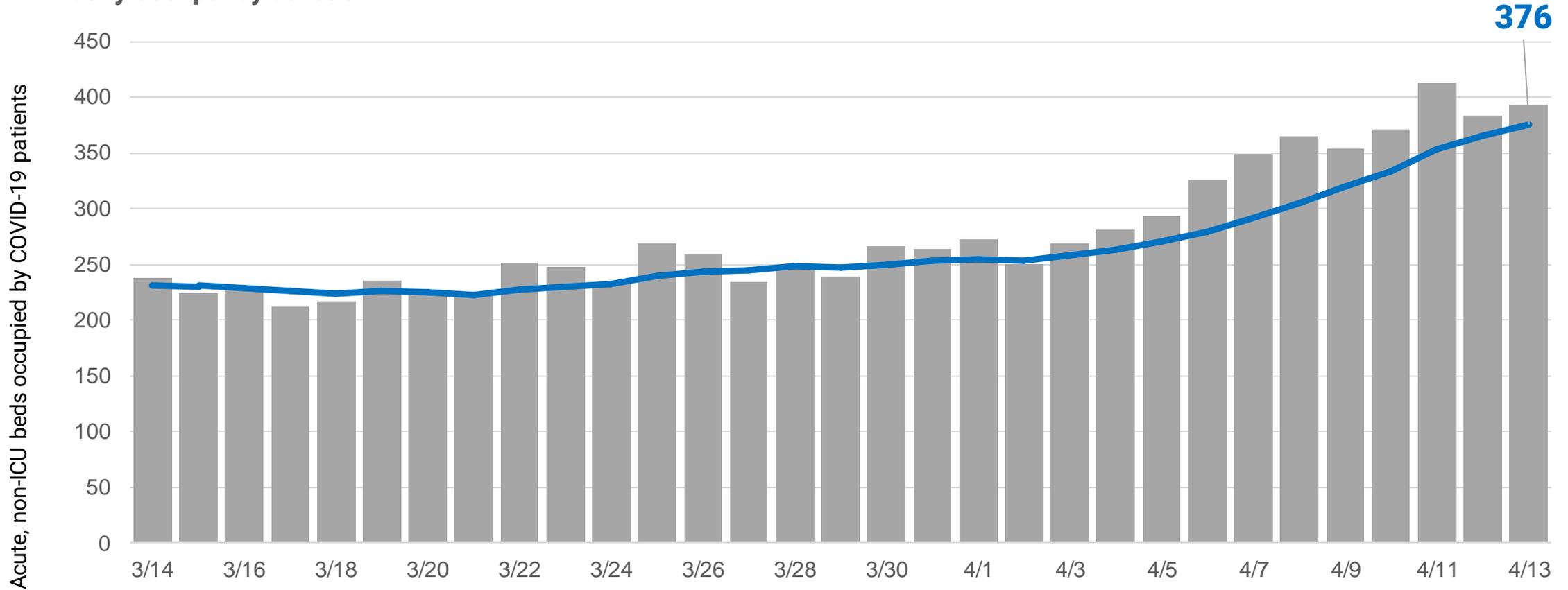


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Acute, non-ICU bed census of COVID patients is increasing.



COVID-19 acute/non-ICU beds occupied, daily counts and 7 day average, daily occupancy census

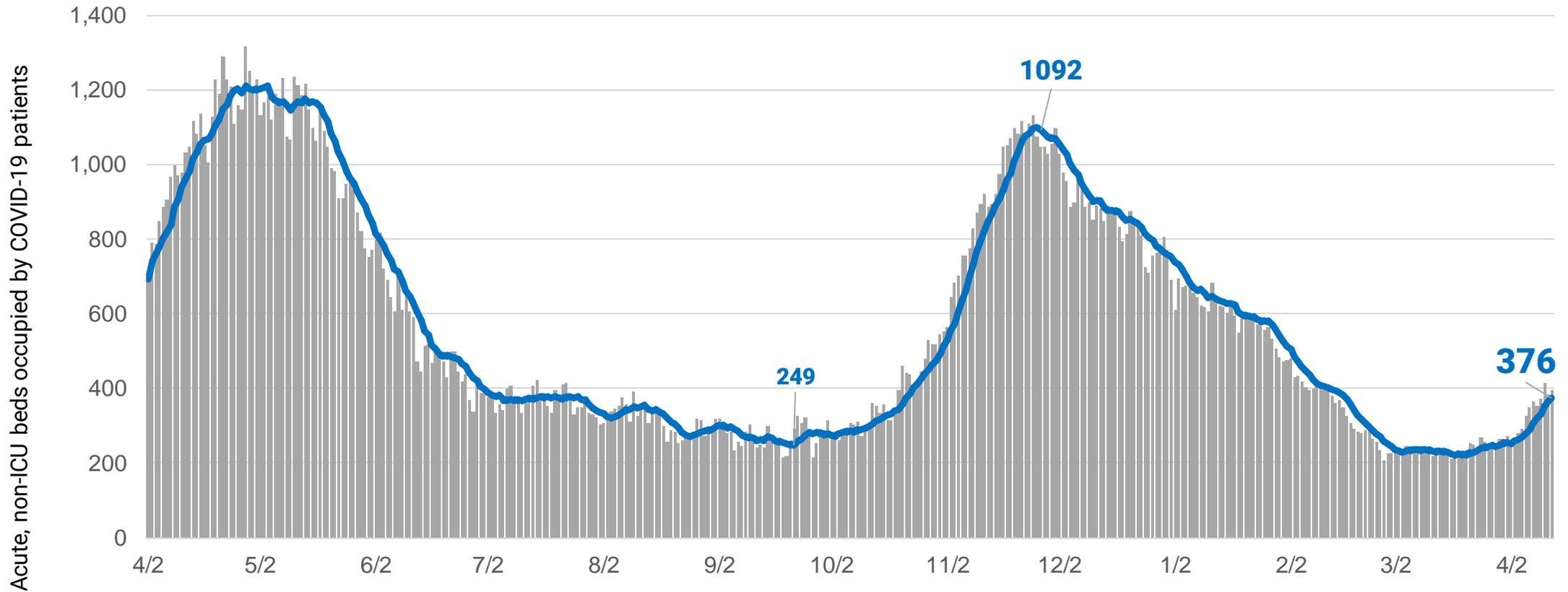


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Acute, non-ICU bed census of COVID patients varies over time.



COVID-19 acute/non-ICU beds occupied, daily counts and 7 day average, daily occupancy census



Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19.. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.